

ASSIGNMENT 4

Textbook Assignment: "Files," "Grinders and Sharpening Stones," "Scrapers," "Awls," "Bolt and Cable Cutters," "Glass Cutters," "Knives," "Pipe Cutting and Threading Tools," "Tube Cutting and Flaring Tools," "Shears and Nippers," "Taps and Dies," "Reamers," and "Benders," chapters 28 through 40, pages 28-1 through 40-4.

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| <p>4-1. The point, edge, face, heel, and tang are the five parts of which of the following tools?</p> <ol style="list-style-type: none">1. A file2. A screwdriver3. A torque wrench4. A machinist's chisel <p>4-2. Curved-tooth files are cut in a contour across the face and are used to smooth which of the following surfaces?</p> <ol style="list-style-type: none">1. Aluminum and bronze2. Lead and babbitt3. Zinc and plastics4. All of the above <p>4-3. A file used for heavier work will have which of the following grades of coarseness?</p> <ol style="list-style-type: none">1. Second-cut2. Smooth-cut3. Bastard-cut4. Dead smooth-cut <p>4-4. Which of the following types of files are used to file in slots and keyways?</p> <ol style="list-style-type: none">1. Three-square files2. Curved-tooth files3. Pillar files4. Round files <p>4-5. Which of the following types of files are used to file rectangular slots and keyways?</p> <ol style="list-style-type: none">1. Curved-tooth files2. Three-square files3. Warding files4. Square files | <p>4-6. Which of the following types of files should you use to file internal angles and to clean out square corners?</p> <ol style="list-style-type: none">1. A round file2. A three-square file3. A curved-tooth file4. A mill file <p>4-7. Which of the following types of files are made to more exact measurements than American files and are used primarily as finishing tools on delicate parts?</p> <ol style="list-style-type: none">1. Three-square files2. Swiss pattern files3. Pillar files4. Round files <p>4-8. When filing soft metal, you should start with a second-cut file and finish with which of the following files?</p> <ol style="list-style-type: none">1. A smooth-cut file2. A course double-cut file3. A bastard-cut file4. A standard-cut curved-tooth file <p>4-9. When using a new file, what will happen if you apply too much pressure?</p> <ol style="list-style-type: none">1. The file will become brittle2. The filing surface will turn blue3. The teeth on the file will break off4. The file will become soft |
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- 4-10. When filing brass or bronze, you should start with which of the following files?
1. A second-cut file
 2. A smooth-cut file
 3. A course double-cut file
 4. A bastard-file
- 4-11. Which of the following tools consists of an abrasive wheel mounted on a rotatable shaft?
1. A rethreading die
 2. A grinder
 3. A tap extractor
 4. A ring gage
- 4-12. For reshaping and sharpening chisels, drills, and hatchets, you should use which of the following tools?
1. A bench grinder
 2. An iron bench level
 3. A jeweler's hammer
 4. A two-piece collet die
- 4-13. Before using a bench grinder, you should tap the wheel lightly with a mallet. What is indicated if you get a ringing sound?
1. The wheel is cracked
 2. The wheel is satisfactory
 3. The wheel has oil on it
 4. The wheel is out of alignment
- 4-14. Which of the following types of scrapers is used to clean cylinder heads?
1. A carbon scraper
 2. A bearing scraper
 3. A box scraper
 4. A triangular blade scraper
- 4-15. To scrape stencil markings from wood surfaces, you should use which of the following tools?
1. A bearing scraper
 2. A bench grinder
 3. A round file
 4. A box scraper
- 4-16. Which of the following tools are used to punch holes in leather and as an aid during sewing?
1. Round-nose pliers
 2. Telescoping gages
 3. Saddler's awls
 4. Trammels
- 4-17. Which of the following tools should you use to scribe marks or as a center punch on soft wood and plastics?
1. A scratch awl
 2. A mattock
 3. A ring gage
 4. A staybolt tap
- 4-18. Which of the following tools are considered security items and should be secured when not in use?
1. Open-end wrenches
 2. Jeweler's hammers
 3. Master precision levels
 4. Bolt cutters
- 4-19. In reference to a center cut cutter, which of the following statements is true?
1. The shorter the handle, the greater the cutting capacity
 2. The handles range from 3 to 9 inches in length
 3. The cutting edges are in the center of the jaw between equal levels
 4. It is used to cut hard steel only
- 4-20. Which of the following tools are used to cut lead and rubber-covered cable?
1. Machinist's scribes
 2. Shear cut cable cutters
 3. Mattocks
 4. Clamp pliers

- 4-21. Angular cut cutters have the cutting edges offset what number of degrees from the handles?
1. 10 degrees
 2. 20 degrees
 3. 30 degrees
 4. 40 degrees
- 4-22. Shear cut, flat bar, and strip cutters are used to cut which of the following stock?
1. Flat-soft stock
 2. Medium-hard bar stock
 3. Strip stock
 4. All of the above
- 4-23. Which of the following tools is used to make straight cuts on glass?
1. A circle glass cutter
 2. A pillar file
 3. A wheel glass cutter
 4. A track chisel
- 4-24. Which of the following tools is used to cut wallboard, paper, cardboard, linoleum, canvas, and upholstery materials?
1. A shop knife
 2. A saddler's knife
 3. A scribe
 4. A scratch awl
- 4-25. Which of the following tools should you use to smooth wood after chopping with a hatchet or axe?
1. A putty knife
 2. A draw knife
 3. A wooden maul
 4. A carpenter's hammer
- 4-26. There are two sizes of pipe cutters. One size can cut from 1/8 to 2 inches, while the other can cut from 2 to what maximum number of inches?
1. 8 inches
 2. 6 inches
 3. 5 inches
 4. 4 inches
- 4-27. Pipe cutters can be used to cut which of the following materials?
1. Steel and brass only
 2. Copper and wrought iron only
 3. Lead only
 4. Steel, brass, copper, wrought iron, and lead
- 4-28. To protect you from getting cut on the sharp ends, pipe often comes with which of the following items?
1. Wooden plugs
 2. Rubber plugs
 3. Protective caps
 4. Plastic inserts
- 4-29. Threading sets should be stored in which of the following containers?
1. A case
 2. A box
 3. Either 1 or 2 above
 4. A tool box
- 4-30. Tube cutters are usually designed to cut tubing up to what maximum size?
1. 1 inch
 2. 2 5/8 inches
 3. 3 1/2 inches
 4. 4 inches
- 4-31. What are the two basic types of flaring tools?
1. Hard and soft
 2. Single and double
 3. Long and short
 4. Soft and brittle
- 4-32. Which of the following tools are used to cut wire, light metal bars, bolts, nails, and protruding metal?
1. Cutting nippers
 2. Wire strippers
 3. Flat-nose pliers
 4. Center cut cutters

- 4-33. Which of the following tools are used to cut heavy sheet metal?
1. Nippers
 2. Clamp pliers
 3. Slip-joint pliers
 4. Tinner's bench shears
- 4-34. A metal shearing machine is normally operated by which of the following sources of power?
1. Electrical
 2. Hydraulic
 3. Foot
 4. Magnetic
- 4-35. The shear blades on metal shearing machines are normally what length?
1. 36 inches
 2. 42 inches
 3. 51 inches
 4. 73 inches
- 4-36. Metal shearing machines will normally cut iron up to what maximum thickness?
1. 1/2 inch
 2. 1/8 inch
 3. 1/16 inch
 4. 1/32 inch
- 4-37. Cutting nippers normally come in what maximum length?
1. 10 inches
 2. 12 inches
 3. 14 inches
 4. 15 inches
- 4-38. Taps are used for which of the following purposes?
1. For cutting external threads
 2. For bending or shaping metal
 3. For cutting internal threads
 4. For removing rust from cylinder heads
- 4-39. Dies are used for which of the following purposes?
1. For cutting internal threads
 2. For removing paint from metal parts
 3. For sealing containers
 4. For cutting external threads
- 4-40. Taps are made from which of the following materials?
1. Hardened steel
 2. Plastic
 3. Copper
 4. Leather
- 4-41. Which of the following tools is used to start tapping operations?
1. A taper hand tap
 2. A rethreading die
 3. A scratch awl
 4. A three-square file
- 4-42. Pipe taps have tapered diameters that increase at what rate?
1. 1/2 inch per foot
 2. 3/4 inch per foot
 3. 7/8 inch per foot
 4. 1 inch per foot
- 4-43. What are the two types of boiler taps?
1. Bent and straight
 2. Straight and tapered
 3. Round and square
 4. Hard and soft
- 4-44. Straight boiler taps range in size from 1/2 inch to what maximum diameter?
1. 1 1/2 inch
 2. 2 3/4 inches
 3. 3 1/4 inches
 4. 4 3/8 inches
- 4-45. A mud or washout tap has what total number of flutes?
1. Six
 2. Eight
 3. Ten
 4. Twelve

- 4-46. Which of the following tools are used in boiler, locomotive, and railroad shops for tapping holes in the outer and inner plates of boilers?
1. Breast drills
 2. Precision gage blocks
 3. Staybolt taps
 4. Vernier calipers
- 4-47. Rethreading dies are used for which of the following purposes?
1. To start tapping operations
 2. To restore bruised or rusty threads on screws and bolts
 3. To remove threads from screws and bolts
 4. To make threads on the inside of nuts
- 4-48. The two-piece collet die consists of two die sections. What are the two sections called?
1. The collet nut and collet bolt
 2. The collet screw and collet washer
 3. The collet groove and collet ridge
 4. The collet cap and collet guide
- 4-49. The mud or washout tap has a total of how many threads per inch?
1. 12 threads per inch
 2. 15 threads per inch
 3. 18 threads per inch
 4. 20 threads per inch
- 4-50. Tapered boiler taps have tapered diameters that increase at what rate?
1. 1/8 inch per foot
 2. 1/4 inch per foot
 3. 1/2 inch per foot
 4. 3/4 inch per foot
- 4-51. Thread cutter sets contain which of the following items?
1. Taps, dies, and diestocks
 2. Tap wrenches, guides, and screwdrivers
 3. Wrenches for making adjustments
 4. All of the above
- 4-52. To enlarge and true a hole, you should use which of the following tools?
1. A scribe
 2. A vernier caliper
 3. A reamer
 4. A jeweler's hammer
- 4-53. What are the three parts of a reamer?
1. Body, stem, and flange
 2. Body, shank, and blades
 3. Blades, flange, and rim
 4. Shank, flange, and wheel
- 4-54. Where can you find the size of a reamer?
1. Stamped on the shank of the tool
 2. Stamped between the blades of the tool
 3. Painted on the body of the tool
 4. Scribed on the body of the tool
- 4-55. Solid taper-pin reamers are made with what standard taper?
1. 3/4 inch per foot
 2. 1/2 inch per foot
 3. 1/4 inch per foot
 4. 1/8 inch per foot
- 4-56. An expansion reamer is made from which of the following materials?
1. Plastic
 2. Carbon steel
 3. Copper
 4. Lead
- 4-57. Solid taper-pin reamers come with which of the following types of flutes?
1. Straight flutes only
 2. Spiral flutes only
 3. Straight and spiral flutes
 4. Square flutes

4-58. Pipe reamers come in which of the following sizes?

1. 1/8-inch to 1-inch pipe capacity
2. 1/4-inch to 1 1/4-inch pipe capacity
3. 1/4-inch to 2-inch pipe capacity
4. All of the above

4-59. What are the two types of spring tube benders?

1. External and internal
2. Plastic and steel
3. Round and square
4. Rigid and flexible

4-60. The radius block of a hand tube bender is graduated from 0 to what maximum number of degrees?

1. 120 degrees
2. 180 degrees
3. 240 degrees
4. 370 degrees